

METHOD AND SYSTEM FOR INTERFERENCE AVERAGING
IN A WIRELESS COMMUNICATION SYSTEM

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ABSTRACT OF THE DISCLOSURE

A family of methods for interference averaging in orthogonal
10 frequency division multiplexing (OFDM) systems is provided. The
methods can provide interference averaging in situations where an
interfering co-channel is either partially or fully loaded. For partially loaded
systems, subcarrier puncturing, frequency domain repetition, time domain
repetition, and hybrid time-frequency repetition schemes are provided.
15 For systems using adaptive modulation/coding rates, lower rates and
transmit power can be selected in order to perform interference averaging
in time-spread and frequency-spread OFDM schemes. In systems with
downlink power control, frequency domain mixing can be used to perform
interference averaging.

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